ALPHA VAC

阿尔法真空

Area & Foam Grippers

When the surface is porous, uneven or arrives in mixed stacks, a single sealing cup will not hold. Our area grippers, also called foam gripsters, spread the vacuum across a whole foam face so one gripster lifts a full carton layer, a rough board or a leaky sack with no fussy positioning.

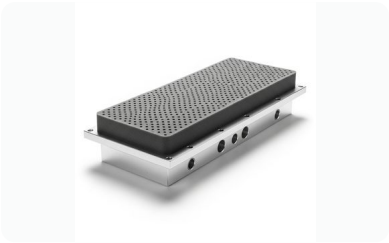
180 order codes · 2 families

INDUSTRIAL VACUUM GRIPPERS AND GRIPSTERS

Area & Foam Grippers

DRIFT

Foam area pad, grips mixed-height and porous loads without a seal



MEADOW

Large sealed area gripper, one pad grips whole layers

DRIFT DRF

FOAM AREA PAD, GRIPS MIXED-HEIGHT AND POROUS LOADS WITHOUT A SEAL

A foam area gripster. A block of closed cell foam seals across mixed and porous loads, so one gripper lifts rough timber, board and irregular parts with no precise positioning.

APPLICATIONS

mixed pallets, porous board, rough timber, irregular loads

68 to 2430	100 to 600	-40 to 130	55 to 60	2
HOLDING FORCE, N	CUP SIZE, MM	TEMPERATURE, °C	HARDNESS, SHORE A	COMPOUNDS

Graphite

Slate

Material options

Compound	Colour	Hardness	Temperature	Density	Non mark	Oil	FDA	ESD
Nitrile	Graphite	55 Shore A	-30 to 105 °C -22 to 221 °F	1.25 g/cm³	No	Yes	No	No
EPDM	Slate	60 Shore A	-40 to 130 °C -40 to 266 °F	1.15 g/cm³	No	No	No	No

Sizes and performance

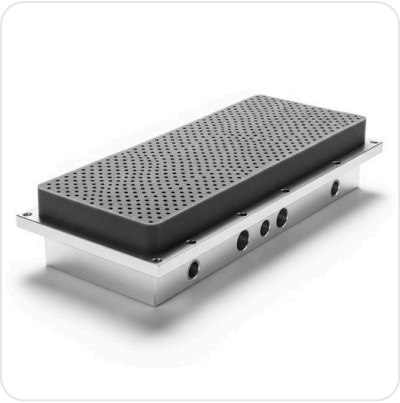
Cup size	Height	Stroke	Internal volume	Holding force
100×50 mm / 3.937×1.969 in	25.0 mm / 0.984 in	0 mm / 0.0 in	6.25 ml / 0.381 in³	**68 N / 15 lbf**
200×100 mm / 7.874×3.937 in	25.0 mm / 0.984 in	0 mm / 0.0 in	25.0 ml / 1.526 in³	**270 N / 61 lbf**
300×150 mm / 11.811×5.906 in	25.0 mm / 0.984 in	0 mm / 0.0 in	56.25 ml / 3.433 in³	**608 N / 137 lbf**
400×200 mm / 15.748×7.874 in	25.0 mm / 0.984 in	0 mm / 0.0 in	100.0 ml / 6.102 in³	**1080 N / 243 lbf**
600×300 mm / 23.622×11.811 in	25.0 mm / 0.984 in	0 mm / 0.0 in	225.0 ml / 13.73 in³	**2430 N / 546 lbf**

Recommended vacuum −60 kPa (17.7 inHg, 59%) at safety factor 2. **Connections** Barbed stem for 6 mm ID tubing, Cup only, no fitting (for custom holders), G1/2 (BSPP) male, G1/4 (BSPP) female, G1/4 (BSPP) male, G1/8 (BSPP) female, G1/8 (BSPP) male, G3/8 (BSPP) male, with NPT options on pipe sizes.

Order code AV-DRF-[size]-[compound]-[connection], for example AV-DRF-300x150-EPDM-G14. 80 configurations in total.

MEADOW MDW

LARGE SEALED AREA GRIPPER, ONE PAD GRIPS WHOLE LAYERS

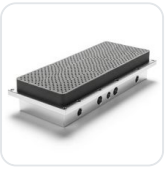


The big sealed area gripster. A full foam face on an aluminium manifold lets a single gripper pick a whole carton layer or a full sheet of board in one move.

APPLICATIONS

full carton layers, plywood sheet, mixed pallets, porous board

754 to 6786	400 to 1200	-40 to 130	55 to 60	2
HOLDING FORCE, N	CUP SIZE, MM	TEMPERATURE, °C	HARDNESS, SHORE A	COMPOUNDS



Graphite

Slate

Material options

Compound	Colour	Hardness	Temperature	Density	Non mark	Oil	FDA	ESD
Nitrile	Graphite	55 Shore A	-30 to 105 °C -22 to 221 °F	1.25 g/cm³	No	Yes	No	No
EPDM	Slate	60 Shore A	-40 to 130 °C -40 to 266 °F	1.15 g/cm³	No	No	No	No

Sizes and performance

Cup size	Height	Stroke	Internal volume	Holding force
400×200 mm / 15.748×7.874 in	30.0 mm / 1.181 in	0 mm / 0.0 in	94.25 ml / 5.752 in³	**754 N / 170 lbf**
600×300 mm / 23.622×11.811 in	30.0 mm / 1.181 in	0 mm / 0.0 in	212.06 ml / 12.941 in³	**1696 N / 381 lbf**
800×400 mm / 31.496×15.748 in	30.0 mm / 1.181 in	0 mm / 0.0 in	376.99 ml / 23.005 in³	**3016 N / 678 lbf**
1000×500 mm / 39.37×19.685 in	30.0 mm / 1.181 in	0 mm / 0.0 in	589.05 ml / 35.946 in³	**4712 N / 1059 lbf**
1200×600 mm / 47.244×23.622 in	30.0 mm / 1.181 in	0 mm / 0.0 in	848.23 ml / 51.762 in³	**6786 N / 1526 lbf**

Recommended vacuum −60 kPa (17.7 inHg, 59%) at safety factor 2. **Connections** Barbed stem for 6 mm ID tubing, Cup only, no fitting (for custom holders), G1/2 (BSPP) male, G1/4 (BSPP) female, G1/4 (BSPP) male, G1/4 (BSPP) spring, G1/8 (BSPP) female, G1/8

(BSPP) male, G1/8 (BSPP) spring, G3/8 (BSPP) male, with NPT options on pipe sizes.

Order code AV-MDW-[size]-[compound]-[connection], for example AV-MDW-800x400-EPDM-G14. 100 configurations in total.